

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001605**Date Inspected:** 27-Jan-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 5AE & OBG 3BW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Performed MEK rub testing on exterior surfaces of OBG 5AE with ZPMC and ABF QA/QC Personnel, 10 random locations were selected jointly with ABF QA representatives and DFT readings were taken prior to MEK rub testing. ABF QA Bill Oak performed all tests in the presence of Caltrans QA inspectors. All the areas tested exhibited a 5 rating with no visible coating discoloration nor staining of the white cloth after 50 double rubs. The DFT readings were taken after the MEK testing was performed in the prescribed areas and no loss was apparent. Resultant testing passed in all locations. ABF QA advised ZPMC personnel to bring Polysiloxane Topcoat inside the paint area for storage and to allow the coating material to warm up prior to performing actual application process.

OBG 3BW

ZPMC personnel abrasive spot blasted 7 different locations on the interior and exterior of said OBG 3BW for chloride testing. Bresle Cell was utilized for all testing and verification purposes, 6 tests revealed that the chloride level was at 1 PPM while 1 test displayed 2 PPM all testing were performed in the presence of CT QA Lumley and areas to be tested were selected by Caltrans QA inspectors. Caltrans QA inspector, Mr. Lumley physically showed ZPMC QC personnel areas which required additional rework for degreasing operations on interior longitudinal stiffener. ZPMC utilized thinner and rags to amend the situation and removed the grease deposits from the surfaces prior to relocation of the segment into the blast shop.

OBG 5AE

SOURCE INSPECTION REPORT

(Continued Page 2 of 2)

Caltrans QA inspector observed chloride test on exterior surface prior to washing operations on the zinc coated surface to ascertain if chlorides were present. ZPMC complied and the test revealed that the zinc coated surface was 1 PPM prior to washing operations. Caltrans QA Lumley also informed ZPMC production manager Bhevin that all required testing on zinc coated surfaces could be done concurrently with one another and not 1 individual test per day. ZPMC could glue dollies on for adhesion perform hardness and MEK and pencil testing all together on zinc coated surfaces at the same time. ZPMC QC Bhevin nodded and walked off.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
